

# ALPHA MAGNETIC SPECTROMETER (AMS) ACCEPTANCE DATA PACKAGE

for

## AMS COLLABORATION HARDWARE

Acceptance Data Effective through [Date]

Part Name: AMS02- RICH

Subsystem/Detector: RHV "RICH HIGH  
VOLTAGE" (RICH)

Part Number: RHV

Serial Number: ---

ADP Tracking Number:

# ALPHA MAGNETIC SPECTROMETER (AMS)

ACCEPTANCE  
DATA  
PACKAGE

FOR

PART NAME:

AMS02- RHV RICH

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PART NUMBER:

RHV

---

SERIAL NUMBER:

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# ALPHA MAGNETIC SPECTROMETER (AMS) MAJOR COMPONENT PRE-INTEGRATION CHECKLIST

AMS02 – RHV RICH

RHV

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ITEM NAME

CI NO.

PART NUMBER

SERIAL NUMBER

The following checklist must be completed prior to integration of any of the major AMS subsystems onto the NASA provided Payload Integration Hardware. All open issues must be documented and dispositions must be approved by all parties.

## INTEGRATION REVIEW ITEMS

- ☐ All integration plans and procedures have been completed and approved.
- ☐ All hardware, including interface fasteners, is available for integration.
- ☐ Mechanical and electrical interfaces have been verified against the interface control documentation.
- ☐ All applicable functional, unit-level, subsystem, and qualification testing has been conducted successfully.
- ☐ Integration facilities, including clean room, ground support equipment, handling fixtures, cranes, and electrical test equipment are ready and available.
- ☐ Support personnel have been adequately trained and will be available at the integration facility.
- ☐ Handling and safety requirements have been documented.
- ☐ All known system discrepancies have been identified and disposed in accordance with an agreed-upon plan.
- ☐ All previous design review success criteria and key issues have been satisfied in accordance with an agreed-upon plan.
- ☐ The quality control organization is ready to support the integration effort.

\_\_\_\_\_  
Payload Integration and Test Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor/Supplier Quality Assurance

\_\_\_\_\_  
Date

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

AMS02 – RHV RICH	CI NO.	RHV	---
ITEM NAME		PART NUMBER	SERIAL NUMBER

## DOCUMENTS INCLUDED IN THIS DATA PACKAGE

Y	N	N/A	SECTION	INDEX
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	HISTORICAL LOG/NOTES/COMMENTS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	II	WAIVERS/DEVIATIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	III	UNEXPLAINED ANOMALIES REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IV	UNPLANNED/DEFERRED WORK REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V	PREPLANNED/ASSIGNED WORK REPORTED
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VI	IDENTIFICATION-AS-DESIGNED CONFIGURATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VII	OPERATING TIME/CYCLE REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VIII	AGE SENSITIVE/TIME ACTION ITEMS REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IX	NON-STANDARD CALIBRATION DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	REPAIR LIMITATIONS DATA REPORTED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XI	PRESSURE VESSEL DATA RECEIVED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XII	NONFLIGHT HARDWARE/TEMPORARY INSTALLATIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XVI	CERTIFICATIONS RECEIVED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XVII	MSDS RECEIVED

## ACCEPTANCE DATA PACKAGE APPROVAL

With only the exceptions listed below, all above criteria have been successfully completed or are not applicable and the following components are ready for integration onto the NASA provided Payload Integration Hardware.

\_\_\_\_\_  
Payload Integration and Test Manager

\_\_\_\_\_  
Date

Exceptions\Resolution Plan (No signature required if there are no exceptions)

- 1.
- 2.
- 3.

I agree with the list of exceptions and agree to implement the resolution plan as described above.

\_\_\_\_\_  
Experiment Integration and Test Manager

\_\_\_\_\_  
Date

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG / NOTES / COMMENTS

AMS02 – RHV RICH

RHV

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Item Name	Part Number	Serial Number
<b>MECHANICAL DOCUMENT</b>		
<a href="#">Incoming RHV</a>		
<a href="#">Material LIST RHV</a>		
<a href="#">Historical Record Log Sheet XHV (QM) Qualification test</a>		
<a href="#">Historical Record Log Sheet RHV MECHANICAL ASSEMBLY</a>		
<a href="#">Historical Record Log Sheet RHV COVERS ASSEMBLY</a>		
<a href="#">Historical Record Log Sheet RHV THERMOSTAT ASSEMBLY</a>		
<a href="#">Historical Record Log Sheet RHV SILVER TEFLON ASSEMBLY</a>		
<a href="#">Historical Record Log Sheet RHV (FM) Acceptance test</a>		
<a href="#">Table fasteners RHV</a>		
<a href="#">RHV Screw Torque Record Sheet</a>		
<b>THERMAL DOCUMENT</b>		
<a href="#">AMS02-SP-CGS-002, "AMS-02 EHV and RHV Bricks Thermal Test Specification"</a>		
<a href="#">AMS02-RP-CGS-008, "AMS-02 EHV AND RHV BRICKS THERMAL ANALYSIS REPORT"</a>		
<a href="#">RHV Environmental Test Specifications</a>		
<a href="#">EHV-RHV TVT acceptance test</a>		

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

<b>ELECTRONIC DOCUMENTS</b>
<a href="#">RHV DTS Layouts</a>
<a href="#">RHV Heater and Thermostat Layout</a>
<a href="#">RHV_01 datasheet (CAEN) (QM)</a>
<a href="#">RHV_02 datasheet (CAEN)</a>
<a href="#">RHV_03 datasheet (CAEN)</a>
<a href="#">RHV_04 datasheet (CAEN)</a>
<a href="#">RHV_05 datasheet (CAEN)</a>
<a href="#">RHV_06 datasheet (CAEN)</a>
<a href="#">RHV_07 datasheet (CAEN)</a>
<a href="#">RHV_Datasheet_CAEN</a>
<b>PHYSICAL DOCUMENT</b>

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE WAIVER DEVIATION / LISTING

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMOLIES RECORDS

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED / DEFERRED WORK

## AMS02 – RHV RICH

RHV

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[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED / ASSIGNED WORK

## AMS02 – RHV RICH

RHV

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[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE OPERATING TIME / CYCLE

## AMS02 – RHV RICH

RHV

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Item Name

Part Number

Serial Number

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE / TIME-ACTION ITEMS

## AMS02 – RHV RICH

RHV

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Item Name

Part Number

Serial Number

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS

## AMS02 – RHV RICH

RHV

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Item Name

Part Number

Serial Number

TYPE OF REPAIR	REPAIR LIMITATION REQUIREMENT	REQUIREMENT SOURCE
		IDENTIFICATION METHOD

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

## AMS02 – RHV RICH

RHV

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Item Name	Item Price	Item Quantity	Item Total
Apple	1.50	2	3.00
Banana	0.75	3	2.25
Orange	1.20	1	1.20
Pineapple	3.50	1	3.50
Watermelon	5.00	1	5.00
Grapes	2.00	1	2.00
Mango	2.50	1	2.50
Peach	1.00	1	1.00
Plum	0.80	1	0.80
Strawberry	1.80	1	1.80
Cherry	2.20	1	2.20
Blueberry	1.60	1	1.60
Lemon	0.90	1	0.90
Lime	0.70	1	0.70
Papaya	1.40	1	1.40
Pomegranate	3.00	1	3.00
Guava	1.10	1	1.10
Kiwi	1.30	1	1.30
Melon	2.80	1	2.80
Nectarine	1.70	1	1.70
Persimmon	1.90	1	1.90
Pineapple	3.50	1	3.50
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
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Dragonfruit	2.50	1	2.50
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Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00
Coconut	1.20	1	1.20
Dragonfruit	2.50	1	2.50
Lychee	1.00	1	1.00
Rambutan	1.80	1	1.80
Salak	1.50	1	1.50
Santol	1.20	1	1.20
Shamrock	1.00	1	1.00
Starfruit	1.50	1	1.50
Jackfruit	2.00	1	2.00

Part Number

Serial Number

[illegible]

THIS PRESSURE VESSEL IS CERTIFIED TO MEET ALL CONTRACT REQUIREMENTS, UNLESS OTHERWISE NOTED, AND IS ACCEPTABLE FOR FLIGHT \_\_\_\_\_ OR GSE \_\_\_\_\_ USE.

DATE \_\_\_\_\_

CONTRACTOR/SUPPLIER SIGNATURE

**ALPHA MAGNETIC SPECTROMETER (AMS)  
HARDWARE ACCEPTANCE DATA PACKAGE  
NONFLIGHT HARDWARE / TEMPORARY INSTALLATIONS**

[illegible]

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

AMS02 – RHV RICH		RHV	---
ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER

Attached documented evidence attesting to the fact the delivered hardware meets specified requirements (i.e., proof load, proof pressure, cleanliness, flight, etc.). Supporting documentation [e.g. Verification Completion Notices (VCNs)], shall be available for review. Certifications and references to supporting records include qualification test procedures, certification analysis, vendor data, justifications for variances from vendor specifications, certification inspections procedures for all design requirements and acceptance requirements.

## CERTIFICATIONS INCLUDED IN THIS DATA PACKAGE

Y	N	N/A	ITEM ID	INDEX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	Qualification Test Procedures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Certification Analysis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	Vendor-supplied Data Sheets
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	Justifications for variances from vendor specifications and any records of approval
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	Certification inspection procedures for all design requirements and acceptance requirements
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	Log of all hardware with corresponding references to certification records for all devices with stored energy (i.e. pressure vessels, capacitors, batteries)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	Log of hazardous chemical and materials with corresponding references to certification records

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE MSDS DATA

[illegible]